Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

cell stack comprising a plurality of fuel cells, and each of said fuel cells comprising a plurality of fuel cells, and cathode, an electrolyte, and an anode, and each of said anodes anode comprising a supported catalyst, wherein said catalyst is selected from the group consisting of precious metals, transition metals, oxides thereof, alloys thereof, and mixtures thereof, and the support is a carbon support, and wherein the loading of said catalyst on said support is greater than about 40% by weight.

Claim 2 (currently amended): The fuel cell <u>stack</u> of claim 1 wherein said electrolyte is a solid polymer and said fuel cell is a solid polymer electrolyte fuel cell.

Claim 3 (currently amended): The fuel cell <u>stack</u> of claim 1 wherein said catalyst comprises platinum.

Claim 4: Cancelled.

Claim 5 (currently amended): The fuel cell <u>stack</u> of claim 4 wherein said support comprises acetylene or furnace carbon black.

Claim 6 (currently amended): A fuel cell stack
with improved voltage reversal tolerance, said fuel
cell stack comprising a plurality of fuel cells, and
each of said fuel cells comprises cell comprising a
cathode, an electrolyte, and an anode, and each of said
anodes anode comprising a supported catalyst, wherein
said catalyst is selected from the group consisting of
precious metals, transition metals, oxides thereof,
alloys thereof, and mixtures thereof, and the support
is a carbon support, and wherein the catalyst covers
greater than about 6% of the surface of said support.

Claim 7 (currently amended): The fuel cell <u>stack</u> of claim 6 wherein the catalyst covers greater than about 9% of the surface of said support.

Claim 8 (currently amended): A fuel cell stack with improved voltage reversal tolerance, said fuel cell stack comprising a plurality of fuel cells, and each of said fuel cells comprises cell comprising a cathode, an electrolyte, and an anode, and each of said anodes anode comprising a supported catalyst, wherein said catalyst is selected from the group consisting of precious metals, transition metals, oxides thereof, alloys thereof, and mixtures thereof, and the support is a carbon support, and wherein the catalyst/support interface perimeter is less than about 10¹¹ m per gram of catalyst.

Claim 9 (currently amended): The fuel cell <u>stack</u> of claim 8 wherein the catalyst/support interface perimeter is less than about 4×10^{10} m per gram of catalyst.

Claims 10-14: Cancelled.

Claim 15 (currently amended): The fuel cell of claim 10 A fuel cell stack with improved voltage reversal tolerance, said fuel cell stack comprising a plurality of fuel cells, and each of said fuel cells

comprises a cathode, an electrolyte, and an anode, and each of said anodes comprising a supported catalyst, wherein said catalyst is selected from the group consisting of precious metals, transition metals, oxides thereof, alloy thereof, and mixtures thereof, and wherein said support comprises Ti₄O₇.

Claim 16 (currently amended): A method of making a fuel cell stack more tolerant to voltage reversal, said fuel cell stack comprising a plurality of fuel cells, and each of said fuel cells comprises cell comprising a cathode, a solid polymer electrolyte, and an anode, and each of said anodes anode comprising a supported catalyst, wherein said method comprises increasing depositing a quantity the loading of said catalyst on said support to be such that the catalyst loading on said support is greater than about 40% by weight

Claim 17 (currently amended): A method of making a fuel cell stack more tolerant to voltage reversal,

said fuel cell stack comprising a plurality of fuel

cells, and each of said fuel cells comprises cell

comprising a cathode, a solid polymer electrolyte, and

an anode, and <u>each of</u> said <u>anodes</u> anode comprising a supported catalyst, wherein said method comprises increasing the catalyst coverage of the surface of said support to be greater than about 6%.

Claim 18 (currently amended): The method of claim
17 comprising increasing the catalyst coverage of the
surface of said support to be greater than about 9%.

Claim 19 (currently amended): A method of making a fuel cell stack more tolerant to voltage reversal, said fuel cell stack comprising a plurality of fuel cells, and each of said fuel cells comprises cell comprising a cathode, a solid polymer electrolyte, and an anode, and each of said anodes anode comprising a supported catalyst, wherein said method comprises decreasing the catalyst/support interface perimeter to be less than about 10¹¹ m per gram of catalyst.

Claim 20 (currently amended): The method of claim 19 comprising decreasing the catalyst/support interface perimeter to be less than about 4×10^{10} m per gram of catalyst.

Claim 21 (currently amended): A method of making a fuel cell stack more tolerant to voltage reversal, said fuel cell stack comprising a plurality of fuel cells, and each of said fuel cells comprises cell comprising a cathode, a solid polymer electrolyte, and an anode, and each of said anodes anode comprising a supported catalyst, wherein said catalyst is selected from the group consisting of precious metals, transition metals, oxides thereof, alloy thereof, and mixtures thereof, and wherein said catalyst that is more resistant to oxidative corrosion than carbon black.

Claim 22 (new): The fuel cell stack of claim

1, wherein the supported catalyst consists essentially
of platinum on said carbon support.

Claim 23 (new): The method of claim 16, wherein the supported catalyst consists essentially of platinum on said carbon support.

Claim 24 (new): The fuel cell stack of claim

1, wherein the fuel cell stack is adapted to operate on pure hydrogen.

Claim 25 (new): The method of claim 16, wherein the fuel cell stack operates on pure hydrogen.